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pure condition up to the present epoch. Mixtec is spoken in the western and northern parts of Oajaca, and also in the adjoining portions of the state of Guerrero, and is closely related to the Chuchon, Amusgo, Cuitlatec, and other idiomatic forms of speech heard in these parts. The Mixtec proper is divided into upper and lower Mixtec, the majority of the Pueblos speaking the upper Mixtec, or Mixteco alto. In former times the Pueblos of Tanguitlan and of Tepuzculula were considered to speak the typical and purest form of the upper Mixtec. The Spanish grammar (Arte) of the Dominican father Antonio de los Reyes, printed in 1593, represents the dialect heard at Tepuzculula at that time, and has just been reëdited by Leon Reinisch, at the expense of Count Hyacinthe de Charencey, in the eighteenth volume of the "Actes de la Société Philologique de Paris," 1890, making 93 octavo pages. The prologue which precedes the work (eight pages) contains much that is valuable upon the ethnography and dialects of the Mixteç people.

The same eighteenth volume contains a Confessionario en lengua Mixe, by the Dominican father Augustin de Quintana, also republished at M. de Charencey's expense, and filling 331 pages. It is a reprint from the edition of LaPuebla, Mexico, 1733, and besides the devotional texts embodies a vocabulary of the parts of the human body, the names of relationships, the numerals, and some grammatic information. Mije or Mixe is spoken in the eastern parts of Oajaca State. —A. S. G.

PROCEEDINGS OF SCIENTIFIC SOCIETIES.

The National Academy of Sciences met at Washington April 21st. The following papers were read: Further Studies on the Brain of *Limulus polyphemus*; A. S. Packard. On Aërodromics; S. P. Langley. The Solar Corona, an Instance of the Newtonian Potential in the Case of Repulsion; F. H. Bigelow (introduced by S. Newcomb). Report on the Human Bones of the Heminway Collection in the U. S. Army Medical Museum, prepared by Dr. Washington Matthews, U. S. A.; J. S. Billings. Application of Interference Methods to Spectroscopic Measurements; A. A. Michelson. The Corona from Photographs of the Eclipse of January 1st, 1889; H. S. Pritchett (introduced by A. Hall). Stellar Motion Problems; Lewis Boss. Effect of Pressure and Temperature on the Decomposition of

Diazo-Compounds ; Ira Remsen. Researches on the Double Halides ; Ira Remsen. Allotropic Silver ; M. Carey Lea (introduced by Ira Remsen). Note on a Paper by M. G. Lippmann ; M. Carey Lea (introduced by Ira Remsen). On the Yttrium Earths, and a Method of Making Pure Yttrium ; H. A. Rowland. Report of the Watson Trustees, and Presentation of the Watson Medal to Professor Arthur Auwers, of Berlin. On the Distribution of Colors in Certain North American Reptiles ; E. D. Cope. The Taxonomy of the Apodal Fishes ; Theodore Gill.

Francis A. Walker, of Boston, was elected vice president to fill the vacancy caused by the resignation of Professor S. P. Langley. The Watson gold medal and \$100 in gold were presented to the German Minister, to be forwarded to Dr. Arthur Auwers, of Berlin, in recognition of his work in determining the positions of the fixed stars. The following gentlemen were elected foreign associates : Dr. Karl Gegenbaur, of Heidelberg, and Dr. Jean Servais Stas, of Belgium.

Biological Society of Washington.—April 4th, 1891.—The following communications were read : Kennerley's Salmon ; Dr. T. H. Bean. Remarks on Recent Bacteriological Progress in the Prevention and Cure of Disease ; Dr. Theobald Smith. Production of Immunity in Guinea Pigs with Sterilized Cultures of Hog Cholera Bacillus ; Dr. V. A. Moore. On the Classification of the Apodal Fishes ; Dr. Theo. Gill. A Monograph of the Carolina Parrakeet ; Mr. E. M. Hasbrouck.

April 18th, 1891.—The Recent Introduction of Date Palms ; Mr. H. E. Van Deman. Recent Observations on a Bacterial Disease of Oaks ; Mr. B. T. Galloway. Some Florida Plants ; Prof. L. F. Ward. Practical Value of Investigating Parasites of Live Stock ; Dr. Cooper Curtice. Abnormal Flowers in Glyceria ; Mr. Theo. Holm.—FREDERIC A. LUCAS, *Secretary*.